

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US2004/034917

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D223/16 A61K31/55 A61P25/00 A61P3/04 A61P15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 91/19698 A1 (SCHERING CORPORATION) 26 December 1991 (1991-12-26) claims 1,5-7	1-26, 33-35, 41,42
A	WO 93/03015 A1 (SMITHKLINE BEECHAM CORPORATION) 18 February 1993 (1993-02-18) page 11, lines 3-14; claim 1	1-47
A	US 4 477 378 A (GOLD ET AL) 16 October 1984 (1984-10-16) column 4, lines 43-68; claim 1	1-26, 33-35, 41,42
A	EP 0 331 130 A (NOVO INDUSTRI A/S; NOVO NORDISK A/S) 6 September 1989 (1989-09-06) claims 1,7,8; examples 8,19,29	1-26, 33-35, 41,42
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents.

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority date(s) on which is cited to establish the publication date of another citation or other special reason (see specification)

O document relating to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

10/02/2005

Name and mailing address of the ISA

European Patent Office, P.O. Box 5010 Patentplan 2
NL - 2200 HV Rijswijk
Tel. (+31-70) 540-3040, Tx. 31 651 epo nl,
Fax (+31-70) 540-3046

Authorized officer

Schuermacher, A

INTERNATIONAL SEARCH REPORT

International Application No.
T/US2004/034917

C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/062205 A1 (SMITHKLINE BEECHAM P.L.C; AHMED, MAHMOOD; BROMIDGE, STEVEN, MARK; FORB) 31 July 2003 (2003-07-31) page 28, lines 5-8; claims 1,13-24	1-47
Y	EP 0 285 919 A (SCHERING CORPORATION) 12 October 1988 (1988-10-12) claims 1,11,12; table 6; compounds 16, 30-32	1-47
P,X	WO 03/086306 A2 (ARENA PHARMACEUTICALS, INC; SMITH, JEFFREY; SMITH, BRIAN) 23 October 2003 (2003-10-23) see examples; claims 1,28-37	1-47

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/034917**Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 25-32 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

. JT/US2004/034917

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9119698	A1	26-12-1991	AU	8201591 A		07-01-1992
			IE	912031 A1		18-12-1991
			PT	97984 A		31-03-1992
			ZA	9104536 A		25-03-1992
WO 9303015	A1	18-02-1993	AU	2433092 A		02-03-1993
			EP	0630372 A1		28-12-1994
			JP	6511239 T		15-12-1994
			US	5639748 A		17-06-1997
US 4477378	A	16-10-1984	US	4349472 A		14-09-1982
EP 0331130	A	06-09-1989	AT	95179 T		15-10-1993
			AU	3090789 A		07-09-1989
			CA	1312863 C		19-01-1993
			DE	68909448 D1		04-11-1993
			DE	68909448 T2		10-02-1994
			DK	87689 A ,B,		29-09-1989
			EP	0331130 A1		06-09-1989
			ES	2059592 T3		16-11-1994
			FI	890841 A ,B,		02-09-1989
			IE	64247 B1		26-07-1995
			JP	1254679 A		11-10-1989
			KR	126473 B1		24-12-1997
			NO	890857 A ,B,		04-09-1989
			NZ	228151 A		27-08-1991
			PH	26368 A		01-06-1992
			PT	89887 A ,B		10-11-1989
			US	5017571 A		21-05-1991
			ZA	8901537 A		29-11-1989
WO 03062205	A1	31-07-2003	EP	1456178 A1		15-09-2004
EP 0285919	A	12-10-1988	AT	112766 T		15-10-1994
			AU	619744 B2		06-02-1992
			AU	1596488 A		02-11-1988
			CA	1321195 C		10-08-1993
			DE	3851769 D1		17-11-1994
			DK	652688 A ,B,		23-11-1988
			EP	0285919 A1		12-10-1988
			EP	0357641 A1		14-03-1990
			FI	894566 A		27-09-1989
			HU	53882 A2		28-12-1990
			IL	85855 A		21-02-1993
			JP	2502723 T		30-08-1990
			JP	6062574 B		17-08-1994
			KR	9311489 B1		08-12-1993
			MX	9203394 A1		01-07-1992
			NO	885096 A ,B,		15-11-1988
			NZ	224038 A		26-10-1990
			PH	27337 A		08-06-1993
			PT	87068 A ,B		01-04-1988
			WO	8807526 A1		06-10-1988
			US	5015639 A		14-05-1991
			US	5247080 A		21-09-1993
			ZA	8802080 A		26-04-1989
WO 03086306	A2	23-10-2003	US	2003225057 A1		04-12-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

...T/US2004/034917

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03086306	A2	CA 2481723 A1	23-10-2003
		EP 1411881 A2	28-04-2004
		US 2005020573 A1	27-01-2005